

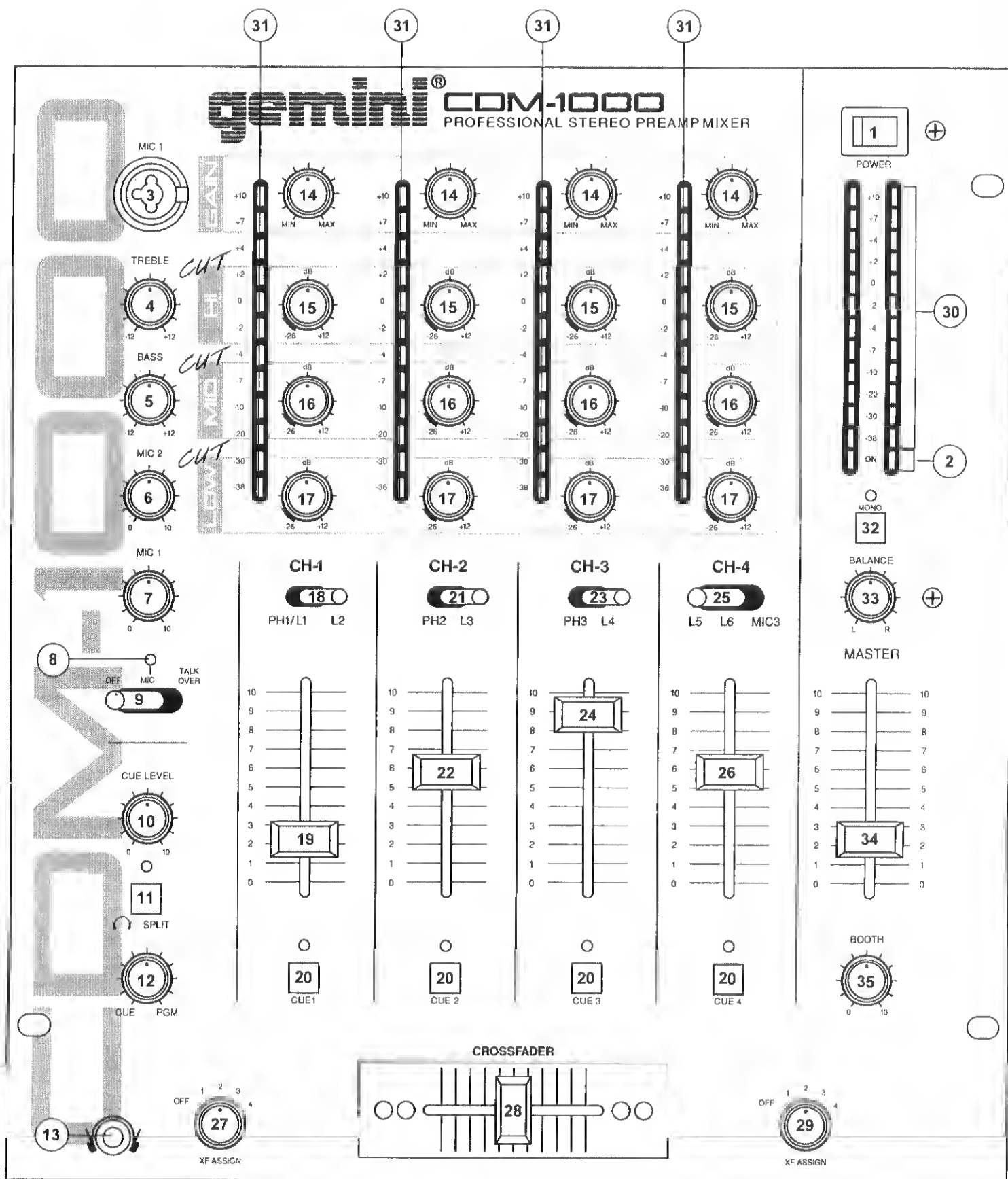
# GEMINI CDM-1000 Professional 4 Channel Mixer

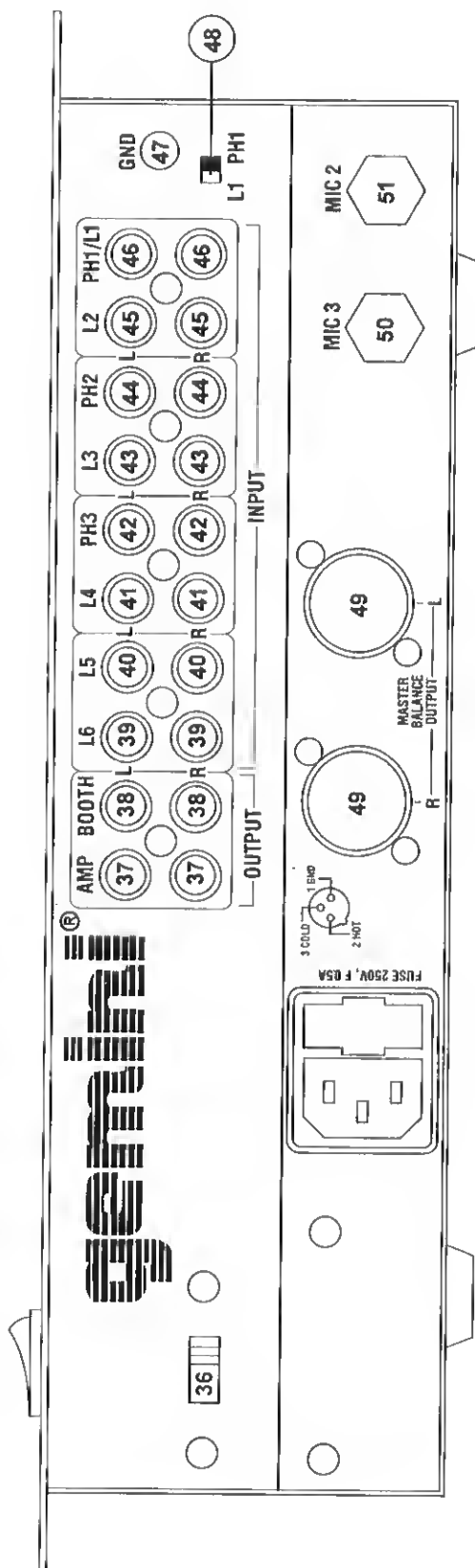
## OPERATIONS MANUAL



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## Introduction

Congratulations on purchasing the Gemini CDM-1000 mixer. This state of the art mixer includes the latest features and is backed by a three year warranty. Prior to use, we suggest that you carefully read all the instructions.

## Features

- 4 Stereo Channels
- State of the Art Cue Section
- 1 Phono/Line Convertible, 2 Phono, 5 Line, and 3 Mic Inputs
- Cut Feature for Low, Mid and High for each channel
- Gain, High, Mid and Low tone controls for each channel
- Talkover
- Balanced and Unbalanced Master Outputs
- Booth Output
- Master Output Peak Hold LED Meters
- Prefader Input Level Peak Hold LED Meters for each channel

## Cautions

1. Always test equipment before rack mounting. Retain a copy of your sales receipt for warranty purposes.
2. All operating instructions should be read before using this equipment.
3. To reduce the risk of electrical shock, do not open the unit. There are **NO USER REPLACEABLE PARTS INSIDE**. Please refer servicing to a qualified service technician.
4. Do not expose this unit to direct sunlight or to a heat source such as a radiator or stove.
5. This unit should be cleaned only with a damp cloth. Avoid solvents or other cleaning detergents.
6. When moving this equipment, it should be placed in its original carton and packaging. This will reduce the risk of damage during transit.
7. **DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**
8. **DO NOT USE ANY SPRAY CLEANER OR LUBRICANT ON ANY CONTROLS OR SWITCHES.**

## Connections

1. Before plugging in the power cord, make sure that the **VOLTAGE SELECTOR (36)** switch is set to the correct voltage.

**NOTE: This product is double insulated and not intended to be grounded.**

2. Make sure that the **POWER (1)** switch is in the off position. The **POWER LED (2)** will be off.
3. The CDM-1000 is supplied with 2 sets of amp output jacks. The **BALANCED OUTPUT AMP (49)** jacks are used to connect to your main amplifier using standard XLR cables. We recommend using the balanced amp outputs if the cables to your amp are 25 feet or more. Balanced outputs have three

separate conductors, two of which are signal (positive and negative) and one shield (ground). **Pin 1** is ground (shield). **Pin 2** is signal hot (positive). **Pin 3** is signal cold (negative). The **OUTPUT AMP (37)** jacks are unbalanced and used to connect to your main amplifier. The **OUTPUT BOOTH (38)** jacks allow you to hook up an additional amplifier.

4. The **MIC 1 (3)** input (found on the front panel) accepts a 1/4" or XLR connector. The **MIC 2 (51)** input and the **MIC 3 (50)** input (found on the rear panel) accept 1/4" connectors. All accept balanced and unbalanced microphones.
5. On the rear panel are 1 stereo **PHONO/LINE (46)** input, 2 stereo **PHONO (42, 44)** inputs, and 5 stereo **LINE (39, 40, 41, 43, 45)** inputs. The **PHONO/LINE SWITCH (48)** enables you to set the (46) input to Phono or Line. The phono inputs will accept only turntables with a magnetic cartridge. A **GROUND SCREW (47)** for you to ground your turntables is located on the rear panel. The stereo line inputs will accept any line level input such as a CD player, a cassette player, etc.
6. Headphones can be plugged into the front panel mounted **HEADPHONE (13)** jack.

## Operation

1. **POWER ON:** Once you have made all the equipment connections to your mixer, press the **POWER SWITCH (1)**. The power will turn on and the **POWER LED (2)** will glow.
2. **CHANNEL 1:** The **GAIN (14)**, **HIGH (15)**, **MID (16)**, and **LOW (17)** controls allow you to fully adjust the selected source. Switch # (18) allows you to select the **PHONO 1/LINE 1 (46)** or the **LINE 2 (45)** input. The **CHANNEL SLIDE (19)** controls the input level of this channel.
3. **CHANNEL 2:** The **GAIN (14)**, **HIGH (15)**, **MID (16)**, and **LOW (17)** controls allow you to fully adjust the selected source. Switch # (21) allows you to select the **PHONO 2 (44)** or the **LINE 3 (43)** input. The **CHANNEL SLIDE (22)** controls the input level of this channel.
4. **CHANNEL 3:** The **GAIN (14)**, **HIGH (15)**, **MID (16)**, and **LOW (17)** controls allow you to fully adjust the selected source. Switch # (23) allows you to select the **PHONO 3 (42)** or the **LINE 4 (41)** input. The **CHANNEL SLIDE (24)** controls the input level of this channel.
5. **CHANNEL 4:** The **GAIN (14)**, **HIGH (15)**, **MID (16)**, and **LOW (17)** controls allow you to fully adjust the selected source. Switch # (25) allows you to select the **LINE 5 (40)**, **LINE 6 (39)** or the **MIC 3 (50)** input. The **CHANNEL SLIDE (26)** controls the input level of this channel.

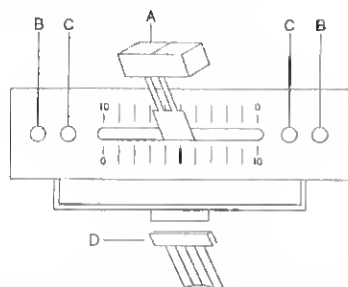
**NOTE: There is Low, Mid and High equalization for each channel with an extremely wide range of adjustment providing a smoother mix.**

**SUGGESTION:** You can use the Cut Features on each channel to remove Low, Mid and/or High to create special effects.

6. **CROSSFADER SECTION:** The **CROSSFADER (28)** allows the mixing of one source into another. The CDM-1000 features an assignable crossfader. The **ASSIGN (27, 29)** switches allow you to select which channel will play through each side of the crossfader. The **ASSIGN (27)** switch has 5 settings (OFF, 1, 2, 3 or 4) and allows you to select channel 1, 2, 3 or 4 to play through the left side of the crossfader. The **ASSIGN (29)** switch has 5 settings (OFF, 1, 2, 3 or 4) and allows you to select channel 1, 2, 3 or 4 to play through the right side of the crossfader. With the **ASSIGN** switch in the off position, that side of the crossfader will be inactive. The **CROSSFADER (28)** in your unit is removable and if the need arises can be easily replaced. Crossfader units are available in three varieties. Part

# RF-45 (which is identical to the crossfader supplied with the mixer) has a 45 mm travel from side to side. Part # RF-30 is available with a 30 mm travel distance. Also available is the PSF-45 with a special curve designed for scratch mixing. Just purchase one of these crossfader units from your Gemini dealer and follow these instructions:

1. Unscrew the outside **FADER PLATE SCREWS (B)**. Do not touch the **INSIDE SCREWS (C)**.
2. Carefully lift the fader and unplug the **CABLE (D)**.
3. Plug the new fader into the cable and place it back in the mixer.
4. Screw the fader to the mixer.



7. **OUTPUT CONTROL SECTION:** The level of the **AMP OUT (37, 49)** is controlled by the **MASTER (34)** slide and the **BALANCE CONTROL (33)**. The **BOOTH (35)** control adjusts the level of the **BOOTH OUTPUT (38)**. **HINT:** The booth **OUTPUT** is used by some DJs to run monitor speakers in their DJ booth. You can also use it as a second **ZONE** or **AMP** output. Activating the **MONO (32)** button (the mono LED will light) makes the master output mono.
8. **TALKOVER SECTION:** The purpose of the talkover section is to allow the program playing to be muted so that the mic can be heard above the music. The **MIC/TALKOVER SWITCH (9)** controls **MIC 1** and **MIC 2** and has three settings. When the **MIC/TALKOVER SWITCH (9)** is in the left position, **MIC 1** and **MIC 2** and talkover are off. When the **MIC/TALKOVER SWITCH (9)** is in the center position **MIC 1** and **MIC 2** are on, the **MIC INDICATOR (8)** will glow, but talkover is off. When the **MIC/TALKOVER SWITCH (9)** is in the right position, **MIC 1** and **MIC 2** and talkover will be on and the volume of all sources except the Mic inputs are lowered by 16 dB. The **TREBLE (4)** and **BASS (5)** controls allow you to fully adjust the tone of **MIC 1** and **MIC 2**. **MIC 1 LEVEL (7)** controls the level of **MIC 1**. The **MIC 2 LEVEL (6)** controls the level of **MIC 2**.
9. **CUE SECTION:** By connecting a set of headphones to the **HEADPHONE (13)** jack, you can monitor any or all of the channels. Press the **CUE ASSIGN (20)** buttons for channels 1 - 4 to select the channel or channels to be monitored and their respective LED indicators will glow. Use the **CUE LEVEL (10)** control to adjust the cue volume without effecting the overall mix. By rotating the **CUE PGM PAN (12)** control to the left you will be able to monitor the assigned cue signal. Rotating to the right will monitor the **PGM** (program) output. Use the **CUE SPLIT (11)** button to split the signals from cue and program so that cue will be heard in one earphone and program will be heard in the other earphone.
10. **DISPLAYS:** The **PEAK HOLD LED METER (30)** indicates the **MASTER OUTPUT (37, 49)** left and right channel levels. The individual channels each have their own **PREFADER INPUT LEVEL PEAK HOLD LED METERS (31)** which reflect the **GAIN (14)**, **HIGH (15)**, **MID (16)**, and **LOW (17)** rotary control adjustments. The **CHANNEL SLIDES (19, 22, 24, 26)** will not effect the **PREFADER INPUT LEVEL PEAK HOLD LED METERS (31)**.

## Specifications

### INPUTS:

Phono.....3mV 47Kohm  
Line.....150 mV 27Kohm  
Aux.....150 mV 27Kohm

### OUTPUTS:

Amp/Booth.....0 dB 1V 400ohm  
Max.....20V Peak to Peak

Rec.....225mV 5Kohm

### MIC 1 & MIC 2:

DJ Mic.....1.5mV 2Kohm balanced  
Bass.....± 12dB  
High.....± 12dB

### MIC 3:

DJ Mic.....1.5mV 2Kohm balanced  
Controls.....Channel 4

### GENERAL:

Bass (Chnls 1-4).....+ 12dB/- 26 dB  
Mid (Chnls 1-4).....+ 12dB/- 26 dB  
Treble (Chnls 1-4).....+ 12dB/- 26 dB  
Gain (Chnls 1-4).....0 to -20dB  
Frequency Response.....20Hz - 20KHz +/- 2dB  
Distortion.....0.02%  
S/N Ratio.....better than 80dB  
Talkover Attenuation.....-16dB  
Headphone Impedance.....16ohm  
Power Source.....115/230V 50/60Hz 10W  
Dimensions.....12.5"w x 3"h x 14"d  
Weight.....10 lbs